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Age-related peculiarities of contractile activity of rat myocardium during blockade of hyperpolarization-activated currents

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Abstract

Contractile activity of atrial and ventricular myocardial strips isolated from rats of various age was examined under conditions of blockade of non-selective hyperpolarization-activated cation currents. Addition of ZD7288, a blocker of non-selective hyperpolarization-activated cation currents, to the perfusion solution increased the contraction force of atrial and ventricular strips in 1-, 8-, and 20-week rats, but produced an opposite effect on contractile activity of atrial and ventricular strips in 3-week rats. © Springer Science+Business Media, Inc. 2007.

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Keywords

Heart, Hyperpolarization-activated currents, Inotropy, Ontogeny, Rat